BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE.

DIVISION: BYATARAYANAPURA.

SUB DIVISION: VIDYARANYAPURA.

POST-MEASUREMENT

8TH AND PART BILL

ANNEXURE - 2

Name of Work: *Package No. 06 (Consists of 14 Works).*

Est Cost: 1500.00 Lakhs

Work Order: BBMP/EE/BTP/WO/76/2022-23 Dated: 24-11-2022.

Agency: M/s. SMLP Asphalts Prop: Sri B.B. Umesha

BRUHAT BENGALURU MAHANAGARA PALIKE

MEASUREMENT SHEET

RA 8TH AND PART BILL (ANNEXURE - 2)

Name of work: Package No. 06 (Consists of 14 Works)

Estimated Cost: Rs. 1500.00 Lakhs

Job Code: 009-23-000003

Head of Account : P-3877 Amruth Nagarothana Works

Name of Agency: M/s. SMLP Asphalts, Prop. Sri B B Umesha, No 1265, Next to Andhra Bank, Major Sandeep Unnikrishnan Road, Yalahanka New Town, Bengaluru - 560064.

Work order No: BBMP/EE/BTP/WO/76/2022-23 Dated: 24-11-2022.

	Measurements Recarded on :	05-06-2023								
Sl No	Chainage	Mesurement No.	L	B1	B2	Av.,B	D	Qty	Rate / Unit	Amount
1	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead I By Manual Means B Cement Concrete Grade M-15 & M-20								Cum	
								Previous Qty Vide 7th and Part Bill Qty =	**95.21**	
								Present Qty =	**NIL**	
2	Removing and refixing stone slabs of drains and pointing in CM (1:3) (Data Rate)								Sqm	
								Previous Qty Vide 7th and Part Bill Qty =	**2911.28**	
								Present Qty =	**NIL**	
3	Removing and refixing of footpath Slab (Data Rate)								Sqm	
								Previous Qty Vide 7th and Part Bill Qty =	**266.40**	
								Present Qty =	**NIL**	
4	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work.								Cum	
								Previous Qty Vide 7th and Part Bill Qty =	**9610.84**	
								Present Qty =	**NIL**	
5	Providing granite slabs of selected quality roughly dressed having a size of 7.5cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete.								Sqm	
								Previous Qty Vide 7th and Part Bill Qty =	**1338.23**	
								Present Qty =	**NIL**	
6	Providing B S slabs of selected quality roughly dressed having a size of 10cms thick and fixed in cement mortar (1:6) including fixing curing ete, complete as directed by the Engineer in Charge of the work (Excluding GST and Area Leading Charges) (Data Rate)								Sqm	

Sl No	Chainage			Mesurement						Qty	Rate / Unit	Amount
				No.	L	B1	B2	Av.,B	D			
			Previous Qty Vide 7th and Part Bill Qty =							42.15		
			Present Qty =							NIL		
7	Providing one line dressing to granite stone slab / granite stone masonry as per specifications as directed by the Engineer in Charge of the work (Excluding GST and Area Leading Charges) (Data Rate)										Sqm	
			Previous Qty Vide 7th and Part Bill Qty =							108.00		
			Present Qty =							NIL		
8	Providing and laying in position plain cement concrete Mix 1:3:6 (M10) for levelling course for all works in foundation. Using 40 mm nominal size graded crushed coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications.										Cum	
			Previous Qty Vide 7th and Part Bill Qty =							1273.89		
			Present Qty =							NIL		
9	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M20 (The cost of steel reinforcement & formwork to be paid separately)										Cum	
			Previous Qty Vide 7th and Part Bill Qty =							2695.01		
			Present Qty =							NIL		
10	Supplying, Fitting and Placing TMT Fe550 bar Reinforcement in sub-structure complete as per Drawing and Technical and as per the Direction of engineer incharge of work										Cum	
			Previous Qty Vide 7th and Part Bill Qty =							166.56		
			Present Qty =							NIL		
11	Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand)and as per the Direction of engineer incharge of work										Cum	
			Previous Qty Vide 7th and Part Bill Qty =							50.63		
			Present Qty =							NIL		
12	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paidseparately) Mix 1:2:4 (M15) Using 20 mm nominal size graded crushed coarse aggregates										Cum	
			Previous Qty Vide 7th and Part Bill Qty =							92.48		
			Present Qty =							NIL		

Sl No	Chainage			Mesurement					Qty	Rate / Unit	Amount
				No.	L	B1	B2	Av.,B	D			
13	Providing and Fixing pre cast covering Slab 100mm thick made out of CC, Jelly 20mm Down Size with steel reinforcement including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc, complete as per Engineer incharge.									Sqm	
			Previous Qty Vide 7th and Part Bill Qty =						4856.86		
			Present Qty =						NIL		
14	Providing and Fixing pre cast covering Slab 230mm thick made out of CC , Jelly 20mm Down Size with steel reinforcement including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc, complete as per Engineer incharge. (Data Rate)									Cum	
			Previous Qty Vide 7th and Part Bill Qty =						680.34		
			Present Qty =						NIL		
15	Providing and fixing Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. Electric resistance or induction butt welded tubes including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge.									Kgs	
			Not executed								
16	Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work.									Cum	
			Previous Qty Vide 7th and Part Bill Qty =						2127.98		
			Present Qty =						NIL		
17	Scarifying the existing bituminous road surface to a depth of 50 mm and disposal of scarified material by Mechanical Means using Hydraulic excavator with in all lifts and lead MORTH Specification No. 305.4.3									Sqm	
			Previous Qty Vide 7th and Part Bill Qty =						695.06		
			Present Qty =						NIL		
18	Construction of Granular Sub-Base of required grading as per design mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per clause 401 (For Grading -V Material)									Cum	
			Previous Qty Vide 7th and Part Bill Qty =						344.10		
			Present Qty =						NIL		
19	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density MORTH Specification No. 406									Cum	
			Previous Qty Vide 7th and Part Bill Qty =						1819.03		
			Present Qty =						NIL		
20	Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means									Sqm	

Sl No	Chainage			Mesurement No.	L	B1	B2	Av.,B	D	Qty	Rate / Unit	Amount
			Previous Qty Vide 7th and Part Bill Qty =							9456.56		
			Present Qty Vide Pre-Measurement Page No. =							954.95		
			Total Qty =							10411.51		
			Deduct Previous Qty =							-9456.56		
			Annexure - 2 Present 8th Bill Qty to be Paid =							954.95	48.50	46315.00
21	Providing and laying Dense Graded Bituminous Macadam with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 505 complete in all respects										Cum	
			Previous Qty Vide 7th and Part Bill Qty =							478.34		
			Present Qty Vide Pre-Measurement Page No. =							47.75		
			Total Qty =							526.09		
			Deduct Previous Qty =							-478.34		
			Annexure - 2 Present 8th Bill Qty to be Paid =							47.75	10553.53	503931.00
22	Providing and applying tack coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.25 kg/m2 on the prepared bituminous surface cleaned with mechanical broom MORTH Specification No. 503										Sqm	
			Previous Qty Vide 7th and Part Bill Qty =							18814.81		
			Present Qty Vide Pre-Measurement Page No. =							1744.51		
			Total Qty =							20559.32		
			Deduct Previous Qty =							-18814.81		
			Annexure - 2 Present 8th Bill Qty to be Paid =							1744.51	16.17	28209.00
23	Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 percent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade,level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects										Cum	
			Previous Qty Vide 7th and Part Bill Qty =							753.01		
	Asphalt Road											
	Parwathamma Layout											
	Cross Road 1		From	1st Main to 2nd Main								
	0.00	15.00		1	15.00	3.50	3.70	3.60	0.04	2.16		
	15.00	24.30		1	9.30	3.70	3.90	3.80	0.04	1.41		
	2nd Main Road from Dead End to Cross Road											
	0.00	15.00		1	15.00	4.20	3.95	4.08	0.04	2.45		
	15.00	30.00		1	15.00	3.95	2.95	3.45	0.04	2.07		
	30.00	45.00		1	15.00	2.95	2.90	2.93	0.04	1.76		
	45.00	60.00		1	15.00	2.90	3.20	3.05	0.04	1.83		
	60.00	70.70		1	10.70	3.20	3.55	3.38	0.04	1.44		
	70.70	90.00		1	19.30	4.90	4.35	4.63	0.04	3.57		
	90.00	105.00		1	15.00	4.35	5.30	4.83	0.04	2.90		
	105.00	120.00		1	15.00	5.30	4.20	4.75	0.04	2.85		
	120.00	135.00		1	15.00	4.20	4.30	4.25	0.04	2.55		
	135.00	150.00		1	15.00	4.30	5.20	4.75	0.04	2.85		
	150.00	165.00		1	15.00	5.20	5.20	5.20	0.04	3.12		
	165.00	177.10		1	12.10	5.20	5.00	5.10	0.04	2.47		
	Cross Road 2		From	2nd Main to 3rd Main								
	0.00	15.00		1	15.00	4.10	4.40	4.25	0.04	2.55		
	15.00	32.90		1	17.90	4.40	4.40	4.40	0.04	3.15		
	3nd Main Road From Cross Road to Dead End											
	0.00	15.00		1	15.00	3.80	4.50	4.15	0.04	2.49		

Sl No	Chainage			Mesurement No.	L	B1	B2	Av.,B	D	Qty	Rate / Unit	Amount
	15.00	30.00		1	15.00	4.50	5.00	4.75	0.04	2.85		
	30.00	45.00		1	15.00	5.00	4.20	4.60	0.04	2.76		
	45.00	60.00		1	15.00	4.20	5.10	4.65	0.04	2.79		
	60.00	75.00		1	15.00	5.10	4.30	4.70	0.04	2.82		
	75.00	90.00		1	15.00	4.30	4.20	4.25	0.04	2.55		
	90.00	105.00		1	15.00	4.20	4.50	4.35	0.04	2.61		
	105.00	120.00		1	15.00	4.50	3.80	4.15	0.04	2.49		
	120.00	135.00		1	15.00	3.80	4.30	4.05	0.04	2.43		
	135.00	150.00		1	15.00	4.30	4.30	4.30	0.04	2.58		
	150.00	165.00		1	15.00	4.30	4.20	4.25	0.04	2.55		
	165.00	177.10		1	12.10	4.20	4.70	4.45	0.04	2.15		
	Deductions											
	Chambers			-11	1.00			0.70	0.04	-0.31		
	Manholes			-6	0.64	Area of Circle = (3.142*0.9*0.9)/4 = 0.64			0.04	-0.15		
			Total Qty =							822.74		
			Deduct Previous Qty =							-753.01		
			Present 7th Bill Qty to be Paid =							69.73	12253.37	854484.00

Assistant Engineer
New Ward No. 11

Assistant Executive Engineer
Kodigehalli Sub Division

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Sl No	Chainage			Mesurement					Qty	Rate / Unit	Amount
			No.	L	B1	B2	Av.,B	D			
	Measurements Recarded on :										
24	Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/ m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes. MORTH Specification No. 803									Sqm	
			Previous Qty Vide 7th and Part Bill Qty =						695.92		
	Parwathamma Layout										
	Cross Road 1		**From**	**1st Main to 2nd Main**							
	0.00	15.00		2	15.00			0.10	3.00		
	15.00	24.30		2	9.30			0.10	1.86		
	2nd Main Road from Dead End to Cross Road										
	0.00	15.00		2	15.00			0.10	3.00		
	15.00	30.00		2	15.00			0.10	3.00		
	30.00	45.00		2	15.00			0.10	3.00		
	45.00	60.00		2	15.00			0.10	3.00		
	60.00	70.70		2	10.70			0.10	2.14		
	70.70	90.00		2	19.30			0.10	3.86		
	90.00	105.00		2	15.00			0.10	3.00		
	105.00	120.00		2	15.00			0.10	3.00		
	120.00	135.00		2	15.00			0.10	3.00		
	135.00	150.00		2	15.00			0.10	3.00		
	150.00	165.00		2	15.00			0.10	3.00		
	165.00	177.10		2	12.10			0.10	2.42		
	Cross Road 2		**From**	**2nd Main to 3rd Main**							
	0.00	15.00		2	15.00			0.10	3.00		
	15.00	32.90		2	17.90			0.10	3.58		
	3nd Main Road From Cross Road to Dead End										
	0.00	15.00		2	15.00			0.10	3.00		
	15.00	30.00		2	15.00			0.10	3.00		
	30.00	45.00		2	15.00			0.10	3.00		
	45.00	60.00		2	15.00			0.10	3.00		
	60.00	75.00		2	15.00			0.10	3.00		
	75.00	90.00		2	15.00			0.10	3.00		
	90.00	105.00		2	15.00			0.10	3.00		
	105.00	120.00		2	15.00			0.10	3.00		
	120.00	135.00		2	15.00			0.10	3.00		
	135.00	150.00		2	15.00			0.10	3.00		
	150.00	165.00		2	15.00			0.10	3.00		
	165.00	177.10		2	12.10			0.10	2.42		
			Total Qty =						778.20		
			Deduct Previous Qty =						-695.92		
			Present 7th Bill Qty to be Paid =						82.28	551.98	45417.00

Assistant Engineer
New Ward No. 11

Assistant Executive Engineer
Kodigehalli Sub Division

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Sl No	Chainage			Mesurement					Qty	Rate / Unit	Amount
			No.	L	B1	B2	Av.,B	D			
	Measurements Recarded on :										
25	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 m3 in volume and stock piling at designated locations and disposal of dismantled materials and stacking serviceable and unserviceable materials separately MORTH Specification No. 202									Cum	
			Not Executed						0.00		
26	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:5:10 Using 40 mm nominal size graded crushed coarse aggregates									Cum	
			Previous Qty Vide 7th and Part Bill Qty =						140.96		
			Present Qty =						NIL		
27	Providing and constructing un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including construction joints, , primer, sealant , curing of concrete slabs for 14- days, and water finishing to lines and grade as per drawing and technical specification clause 1501 with all lead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, equipments etc., complete MORTH Specification No.1501 . as per the directions of the Engineer-in-charge of the work.									Cum	
			Previous Qty Vide 7th and Part Bill Qty =						140.96		
			Present Qty =						NIL		
28	Cutting transverse contraction joints 3 to 4 mm wide and depth 60mm in concrete slab using concrete cutting machine with diamond studded saw within 48 hours of casting of bay / slab etc. complete including subsequent widening of the groove 8 to 10 mm. wide at top having depth of 15 mm. as directed by Engineer incharge. MORTH Specification No. 602.6.3									Mtrs	
			Previous Qty Vide 7th and Part Bill Qty =						257.83		
			Present Qty =						NIL		
29	Providing to contraction joints polysuphide sealent (Pouring grade) confirming to BS : 5212 - 1989 into sawed groove widened at top for sealent reservoir of specified size and shape as per detailed drawing including fixing Polyethylene foam backer rod of required diameter (approx. 25% larger than the initial 3 mm.to 4 mm. joint) overlaid with bond breaking tape as per detailed drawing. Item includes cleaning the joints with water jet / air compressor and allowing joint to become thoroughly dry before sealent is applied and applying primer. (A) Contraction and longitudinal joints (15 mm. deep x 8mm.wide). MORTH									Mtrs	
			Previous Qty Vide 7th and Part Bill Qty =						257.83		
			Present Qty =						NIL		
30	Loading and Unloading of Stone Boulder / Stone aggregates / Sand / Kankar / Moorum.									Cum	
			Previous Qty Vide 7th and Part Bill Qty =						10601.43		
			Present Qty =						NIL		
31	Cost of Haulage Excluding Loading and Unloading, Case-1 : Surfaced Road A Taking output 10 t load and lead 10 km = 100 t.km									T.Kms	
			Previous Qty Vide 7th and Part Bill Qty =						13569.85		
			Present Qty =						NIL		

Sl No	Chainage			Mesurement					Qty	Rate / Unit	Amount
				No.	L	B1	B2	Av.,B	D			
										Sub Total =	1478356.00
										Add GST 18% Charges =	266104.00
										Grand Total =	1744460.00

Assistant Engineer
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Assistant Executive Engineer
Kodigehalli Sub Division

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE.

DIVISION: BYATARAYANAPURA.

SUB DIVISION: VIDYARANYAPURA.

PRE-MEASUREMENT

8TH AND PART BILL

ANNEXURE - 2

Name of Work: *Package No. 06 (Consists of 14 Works).*

Est Cost: 1500.00 Lakhs

Work Order: BBMP/EE/BTP/WO/76/2022-23 Dated: 24-11-2022.

Agency: M/s. SMLP Asphalts Prop: Sri B.B. Umesha

BRUHAT BANAGLORE MAHANAGARA PALIKE

Assistant Executive Engineer, Kodigehalli Sub-Division

Package No.06 (Consists of 14 Works)

Measurement sheet

Name of the Contractor:M/s.SMLP Asphalts,Prop. Sri B B Umesha,

Workorder No: BBMP/EE/BTP/WO/76/22-23

Job Code: 009-23-000003

8th & Part Bill

Item NO	20	
Item Name	Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means MORTH Specification No. 502	

SL NO	CHAINAGE Land mark		NO	Length (m)	Breadth B1(m)	Breadth B2(m)	Avg Breadth B(m)	Depth (m)	Qty	Remarks
Measurement Recorded On :				02-06-2023						
	Parwathamma Layout									
	Cross Road 1		**1st Main to 2nd Main**							
	0.00	15.00	1	15.00	1.20	1.50	1.35		20.25	
	15.00	24.60	1	9.60	1.50	1.30	1.40		13.44	
	2nd Main Road from Dead End to Cross Road									
RHS	0.00	15.00	1	15.00	1.00	1.00	1.00		15.00	
	15.00	30.00	1	15.00	1.00	1.20	1.10		16.50	
	30.00	45.00	1	15.00	1.20	1.10	1.15		17.25	
	45.00	60.00	1	15.00	1.10	1.10	1.10		16.50	
	60.00	70.70	1	10.70	1.10	1.10	1.10		11.77	
	70.70	90.00	1	19.30	4.90	1.20	3.05		58.87	
	90.00	105.00	1	15.00	1.20	1.20	1.20		18.00	
	105.00	120.00	1	15.00	1.20	1.10	1.15		17.25	
	120.00	135.00	1	15.00	1.10	1.10	1.10		16.50	
	135.00	150.00	1	15.00	1.10	1.20	1.15		17.25	
	150.00	165.00	1	15.00	1.20	1.20	1.20		18.00	
	165.00	177.10	1	12.10	1.20	1.10	1.15		13.92	
LHS										
	0.00	15.00	1	15.00	1.05	1.10	1.08		16.13	
	15.00	30.00	1	15.00	1.10	1.20	1.15		17.25	
	30.00	45.00	1	15.00	1.20	1.10	1.15		17.25	
	45.00	60.00	1	15.00	1.10	1.05	1.08		16.13	
	60.00	70.70	1	10.70	1.05	1.20	1.13		12.04	
	70.70	90.00	1	19.30	4.90	1.10	3.00		57.90	
	90.00	105.00	1	15.00	1.10	1.20	1.15		17.25	
	105.00	120.00	1	15.00	1.20	1.20	1.20		18.00	
	120.00	135.00	1	15.00	1.20	1.10	1.15		17.25	
	135.00	150.00	1	15.00	1.10	1.20	1.15		17.25	
	150.00	165.00	1	15.00	1.20	1.15	1.18		17.63	
	165.00	177.10	1	12.10	1.15	1.20	1.18		14.22	
	Cross Road 2		**2nd Main to 3rd Main**							
	0.00	15.00	1	15.00	1.20	1.50	1.35		20.25	
	15.00	32.90	1	17.90	1.50	1.30	1.40		25.06	
	3nd Main Road From Cross Road to Dead End									
RHS	0.00	15.00	1	15.00	1.00	1.10	1.05		15.75	
	15.00	30.00	1	15.00	1.10	1.20	1.15		17.25	
	30.00	45.00	1	15.00	1.20	1.10	1.15		17.25	
	45.00	60.00	1	15.00	1.10	1.05	1.08		16.13	
	60.00	75.00	1	15.00	1.05	1.20	1.13		16.88	
	75.00	90.00	1	15.00	1.20	1.10	1.15		17.25	
	90.00	105.00	1	15.00	1.10	1.00	1.05		15.75	
	105.00	120.00	1	15.00	1.00	1.05	1.03		15.38	
	120.00	135.00	1	15.00	1.05	1.05	1.05		15.75	

SL NO	CHAINAGE		NO	Length	Breadth	Breadth	Avg Breadth B(m)	Depth	Qty	Remarks
	Land mark			(m)	B1(m)	B2(m)		(m)		
	135.00	150.00	1	15.00	1.05	1.10	1.08		16.13	
	150.00	165.00	1	15.00	1.10	1.00	1.05		15.75	
	165.00	177.10	1	12.10	1.00	1.20	1.10		13.31	
LHS										
	0.00	15.00	1	15.00	1.20	1.10	1.15		17.25	
	15.00	30.00	1	15.00	1.10	1.25	1.18		17.63	
	30.00	45.00	1	15.00	1.25	1.20	1.23		18.38	
	45.00	60.00	1	15.00	1.20	1.30	1.25		18.75	
	60.00	75.00	1	15.00	1.30	1.20	1.25		18.75	
	75.00	90.00	1	15.00	1.20	1.10	1.15		17.25	
	90.00	105.00	1	15.00	1.10	1.25	1.18		17.63	
	105.00	120.00	1	15.00	1.25	1.20	1.23		18.38	
	120.00	135.00	1	15.00	1.20	1.20	1.20		18.00	
	135.00	150.00	1	15.00	1.20	1.10	1.15		17.25	
	150.00	165.00	1	15.00	1.10	1.00	1.05		15.75	
	165.00	177.10	1	12.10	1.00	1.20	1.10		13.31	
Executed Quantity									**954.95**	**Sqm**
Quantity carried to summary of 8th RA bill									**954.95**	**Sqm**

Contractor Representative

Assistant Engineer
New Ward No. 11
BBMP Bengaluru

Consultant Representative

Assistant Executive Engineer
Kodichehalli Sub Division
BBMP Bengaluru

Assistant Executive Engineer
Kodichehalli Sub Division
BBMP, Bangalore

BRUHAT BANAGLORE MAHANAGARA PALIKE

Assistant Executive Engineer, Kodigehalli Sub Division

Package No.06 (Consists of 14 Works)

Measurement sheet

Name of the Contractor:M/s.SMLP Asphalts,Prop. Sri B B Umesha,

Workorder No: BBMP/EE/BTP/WO/76/22-23

Job Code: 009-23-000003

8th & Part Bill

Item NO	21	
Item Name	Providing and laying Dense Graded Bituminous Macadam with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 505 complete in all respects	

SL NO	CHAINAGE Land mark		NO	Length (m)	Breadth B1(m)	Breadth B2(m)	Avg Breadth B(m)	Depth (m)	Qty	Remarks
Measurement Recorded On :				02-06-2023						
	Parwathamma Layout									
	Cross Road 1		**1st Main to 2nd Main**							
	0.00	15.00	1	15.00	1.20	1.50	1.35	0.05	1.01	
	15.00	24.60	1	9.60	1.50	1.30	1.40	0.05	0.67	
	2nd Main Road from Dead End to Cross Road									
RHS	0.00	15.00	1	15.00	1.00	1.00	1.00	0.05	0.75	
	15.00	30.00	1	15.00	1.00	1.20	1.10	0.05	0.83	
	30.00	45.00	1	15.00	1.20	1.10	1.15	0.05	0.86	
	45.00	60.00	1	15.00	1.10	1.10	1.10	0.05	0.83	
	60.00	70.70	1	10.70	1.10	1.10	1.10	0.05	0.59	
	70.70	90.00	1	19.30	4.90	1.20	3.05	0.05	2.94	
	90.00	105.00	1	15.00	1.20	1.20	1.20	0.05	0.90	
	105.00	120.00	1	15.00	1.20	1.10	1.15	0.05	0.86	
	120.00	135.00	1	15.00	1.10	1.10	1.10	0.05	0.83	
	135.00	150.00	1	15.00	1.10	1.20	1.15	0.05	0.86	
	150.00	165.00	1	15.00	1.20	1.20	1.20	0.05	0.90	
	165.00	177.10	1	12.10	1.20	1.10	1.15	0.05	0.70	
LHS										
	0.00	15.00	1	15.00	1.05	1.10	1.08	0.05	0.81	
	15.00	30.00	1	15.00	1.10	1.20	1.15	0.05	0.86	
	30.00	45.00	1	15.00	1.20	1.10	1.15	0.05	0.86	
	45.00	60.00	1	15.00	1.10	1.05	1.08	0.05	0.81	
	60.00	70.70	1	10.70	1.05	1.20	1.13	0.05	0.60	
	70.70	90.00	1	19.30	4.90	1.10	3.00	0.05	2.90	
	90.00	105.00	1	15.00	1.10	1.20	1.15	0.05	0.86	
	105.00	120.00	1	15.00	1.20	1.20	1.20	0.05	0.90	
	120.00	135.00	1	15.00	1.20	1.10	1.15	0.05	0.86	
	135.00	150.00	1	15.00	1.10	1.20	1.15	0.05	0.86	
	150.00	165.00	1	15.00	1.20	1.15	1.18	0.05	0.88	
	165.00	177.10	1	12.10	1.15	1.20	1.18	0.05	0.71	
	Cross Road 2		**2nd Main to 3rd Main**							
	0.00	15.00	1	15.00	1.20	1.50	1.35	0.05	1.01	
	15.00	32.90	1	17.90	1.50	1.30	1.40	0.05	1.25	
	3nd Main Road From Cross Road to Dead End									
RHS	0.00	15.00	1	15.00	1.00	1.10	1.05	0.05	0.79	
	15.00	30.00	1	15.00	1.10	1.20	1.15	0.05	0.86	
	30.00	45.00	1	15.00	1.20	1.10	1.15	0.05	0.86	
	45.00	60.00	1	15.00	1.10	1.05	1.08	0.05	0.81	
	60.00	75.00	1	15.00	1.05	1.20	1.13	0.05	0.84	
	75.00	90.00	1	15.00	1.20	1.10	1.15	0.05	0.86	
	90.00	105.00	1	15.00	1.10	1.00	1.05	0.05	0.79	
	105.00	120.00	1	15.00	1.00	1.05	1.03	0.05	0.77	
	120.00	135.00	1	15.00	1.05	1.05	1.05	0.05	0.79	
	135.00	150.00	1	15.00	1.05	1.10	1.08	0.05	0.81	

	150.00	165.00	1	15.00	1.10	1.00	1.05	0.05	0.79	
	165.00	177.10	1	12.10	1.00	1.20	1.10	0.05	0.67	
LHS										
	0.00	15.00	1	15.00	1.20	1.10	1.15	0.05	0.86	
	15.00	30.00	1	15.00	1.10	1.25	1.18	0.05	0.88	
	30.00	45.00	1	15.00	1.25	1.20	1.23	0.05	0.92	
	45.00	60.00	1	15.00	1.20	1.30	1.25	0.05	0.94	
	60.00	75.00	1	15.00	1.30	1.20	1.25	0.05	0.94	
	75.00	90.00	1	15.00	1.20	1.10	1.15	0.05	0.86	
	90.00	105.00	1	15.00	1.10	1.25	1.18	0.05	0.88	
	105.00	120.00	1	15.00	1.25	1.20	1.23	0.05	0.92	
	120.00	135.00	1	15.00	1.20	1.20	1.20	0.05	0.90	
	135.00	150.00	1	15.00	1.20	1.10	1.15	0.05	0.86	
	150.00	165.00	1	15.00	1.10	1.00	1.05	0.05	0.79	
	165.00	177.10	1	12.10	1.00	1.20	1.10	0.05	0.67	
Executed Quantity									**47.75**	**Cum**
Quantity carried to summary of 8th RA bill									**47.75**	**Cum**

Contractor Representative

Consultant Representative

Assistant Engineer
New Ward No. 11
BBMP Bengaluru

Assistant Executive Engineer
Kodigehalli Sub-Division
BBMP Bengaluru

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

BRUHAT BANAGLORE MAHANAGARA PALIKE

Assistant Executive Engineer, Kodigehalli Sub-Division

Package No.06 (Consists of 14 Works)

Measurement sheet

Name of the Contractor:M/s.SMLP Asphalts,Prop. Sri B B Umesha,

Workorder No: BBMP/EE/BTP/WO/76/22-23

Job Code: 009-23-000003

8th & Part Bill

Item	22
Item Name	Providing and applying tack coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.25 kg/m2 on the prepared bituminous surface cleaned with mechanical broom MORTH Specification No. 503

SL NO	CHAINAGE Land mark		NO	Length (m)	Breadth B1(m)	Breadth B2(m)	Avg Breadth B(m)	Depth (m)	Qty	Remarks
Measurement Recorded On :				03-06-2023						
	Parwathamma Layout									
	Cross Road 1		**1st Main to 2nd Main**							
	0.00	15.00	1	15.00	3.50	3.70	3.60		54.00	
	15.00	24.60	1	9.60	3.70	3.90	3.80		36.48	
	2nd Main Road from Dead End to Cross Road									
	0.00	15.00	1	15.00	4.20	3.95	4.08		61.13	
	15.00	30.00	1	15.00	3.95	2.95	3.45		51.75	
	30.00	45.00	1	15.00	2.95	2.90	2.93		43.88	
	45.00	60.00	1	15.00	2.90	3.20	3.05		45.75	
	60.00	70.70	1	10.70	3.20	3.55	3.38		36.11	
	70.70	90.00	1	19.30	4.90	4.35	4.63		89.26	
	90.00	105.00	1	15.00	4.35	5.30	4.83		72.38	
	105.00	120.00	1	15.00	5.30	4.20	4.75		71.25	
	120.00	135.00	1	15.00	4.20	4.30	4.25		63.75	
	135.00	150.00	1	15.00	4.30	5.20	4.75		71.25	
	150.00	165.00	1	15.00	5.20	5.20	5.20		78.00	
	165.00	177.10	1	12.10	5.20	5.00	5.10		61.71	
	Cross Road 2		**2nd Main to 3rd Main**							
	0.00	15.00	1	15.00	4.10	4.40	4.25		63.75	
	15.00	32.90	1	17.90	4.40	4.40	4.40		78.76	
	3nd Main Road From Cross Road to Dead End									
	0.00	15.00	1	15.00	3.80	4.50	4.15		62.25	
	15.00	30.00	1	15.00	4.50	5.00	4.75		71.25	
	30.00	45.00	1	15.00	5.00	4.20	4.60		69.00	
	45.00	60.00	1	15.00	4.20	5.10	4.65		69.75	
	60.00	75.00	1	15.00	5.10	4.30	4.70		70.50	
	75.00	90.00	1	15.00	4.30	4.20	4.25		63.75	
	90.00	105.00	1	15.00	4.20	4.50	4.35		65.25	
	105.00	120.00	1	15.00	4.50	3.80	4.15		62.25	
	120.00	135.00	1	15.00	3.80	4.30	4.05		60.75	
	135.00	150.00	1	15.00	4.30	4.30	4.30		64.50	
	150.00	165.00	1	15.00	4.30	4.20	4.25		63.75	
	165.00	177.10	1	12.10	4.20	4.70	4.45		53.85	
	Deductions									
	Chambers		-11	1.00			0.70		-7.70	
	Manholes		-6	0.64	Area of Circle = (3.142*0.9*0.9)/4 = 0.64				-3.84	
Executed Quantity									**1744.51**	**Sqm**
Quantity carried to summary of 5th RA bill									**1744.51**	**Sqm**

Contractor Representative

Assistant Engineer
New Ward No. 11
BBMP Bengaluru

Consultant Representative

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP Bengaluru

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore